



# Building Structures Illustrated: Patterns, Systems, and Design

By Francis D. K. Ching, Barry S. Onouye, Douglas Zuberbuhler

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**Building Structures Illustrated: Patterns, Systems, and Design** By Francis D. K. Ching, Barry S. Onouye, Douglas Zuberbuhler

Francis D.K.Ching brings his trademark presentation to the structural design studio with this major new work co-authored by Barry Onouye and Douglas Zuberbuhler.

Taking a new approach to structural design, Ching and his co-authors show how structural systems of a building -- as an integrated assembly of elements with pattern, proportions, and scale -- are related to the essential aspects of architectural design: formal and spatial composition, program fit, coordination with other building systems such as enclosure and mechanical systems, code compliance, etc.

No other work by Francis D.K. Ching brings together so many aspects of architectural design as an integrated reference. Designers, builders, and students alike will gain a new understanding of structural principles and planning, without the need for mathematics.

Using Ching's trademark presentation, *Structural Patterns* is illustrated throughout with line drawings to present the essential presence of structural systems in buildings, but also helps the reader make informed decisions for architectural design.

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## **Building Structures Illustrated: Patterns, Systems, and Design By Francis D. K. Ching, Barry S. Onouye, Douglas Zuberbuhler Bibliography**

- Rank: #87333 in Books
- Published on: 2009-01-14
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x .85" w x 8.60" l, 2.00 pounds
- Binding: Paperback
- 320 pages

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### Editorial Review

#### Review

"Ching and his co-authors show how structural systems of a building - as an integrated assembly of elements with pattern, proportions, and scale - are related to the essential aspects of architectural design; formal and spatial composition... They bring together many aspects of architectural design as an integrated reference." (*MCEER Information Service*, October 2009)

#### From the Back Cover

**A major new reference on structural design  
coauthored by bestselling author Francis D.K. Ching**

Structures are an essential element of the building process, yet one of the most difficult concepts for architects to grasp. While structural engineers do the detailed consulting work for a project, architects should have enough knowledge of structural theory and analysis to design a building.

*Building Structures Illustrated: Patterns, Systems, and Design* takes a new approach to structural design, showing how structural systems of a building—such as an integrated assembly of elements with pattern, proportions, and scale—are related to the fundamental aspects of architectural design.

#### This essential book features:

- A one-stop guide to structural design in practice
- Treatment of structural design as part of the entire building design process
- An overview of the historical development of architectural materials and structures

With thorough coverage of formal and spatial composition, program fit, coordination with other building systems, code compliance, and others, *Building Structures Illustrated: Patterns, Systems, and Design* enables students and professionals to make informed decisions for architectural design and is illustrated throughout with Francis D.K. Ching's signature line drawings to present the essential presence of structural systems in buildings.

#### About the Author

**Francis D.K. Ching** is a registered architect and Professor Emeritus at the University of Washington in Seattle. He is the bestselling author of numerous books on architecture and design, all published by Wiley. His works have been translated into over sixteen languages, and are regarded as classics for their renowned graphic presentation.

**Barry S. Onouye** is a registered engineer and Senior Lecturer Emeritus at the University of Washington, where he teaches courses on structural design in the College of the Built Environment. He is the author of *Statics and Strength of Materials for Architecture and Building Construction*.

**Douglas Zuberbuhler** is a registered architect and Senior Lecturer at the University of Washington, where he teaches architectural design. He is also Associate Dean of the College of the Built Environment.

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